

CLAIMS:

1. An integrated antenna device comprising a first, dielectric antenna component and a second, electrically-conductive antenna component, wherein the first and
5 second components are not electrically connected to each other but are mutually arranged such that the second component is parasitically driven by the first component when the first component is fed with a predetermined signal.
2. A device as claimed in claim 1, wherein the first antenna component
10 comprises a dielectric resonator antenna formed as a dielectric pellet mounted on a first side of a dielectric substrate and provided with a feeding mechanism, a second, opposed side of the dielectric substrate being provided with a conductive groundplane covering at least an area corresponding to an area on the first side occupied by the pellet.
- 15 3. A device as claimed in claim 1, wherein the first antenna component comprises a high dielectric antenna formed as a dielectric pellet mounted on a first side of a dielectric substrate and provided with a feeding mechanism.
- 20 4. A device as claimed in claim 1, wherein the first antenna component comprises a dielectrically loaded antenna.
5. A device as claimed in any preceding claim, wherein the second antenna component is a patch antenna, slot antenna, monopole antenna, dipole antenna or
25 planar inverted-L antenna.
6. A device as claimed in any preceding claim, wherein the first and second antenna components are configured to radiate at different frequencies.
- 30 7. A device as claimed in claim 3 or any claim depending from claim 3, wherein the first antenna component comprises a dielectric pellet mounted on the first side of

a dielectric substrate, a microstrip feed located on the first side of the substrate and extending between the substrate and the dielectric pellet, and a conductive layer formed on a second side of the substrate opposed to the first, wherein an aperture is formed in the conductive layer or the conductive layer is removed from the second
5 side of the substrate at a location corresponding to that of the dielectric pellet.

8. A device as claimed in claim 3 or any claim depending from claim 3, wherein the first antenna component comprises a dielectric antenna comprising a microstrip feed located on a first side of a dielectric substrate, a conductive layer formed on a
10 second side of the substrate opposed to the first and having an aperture formed therein, wherein a dielectric pellet is mounted on a second side of the substrate within or at least overlapping the aperture.

9. A device as claimed in any preceding claim, wherein the second antenna
15 component is located adjacent the first antenna component.

10. A device as claimed in any preceding claim, wherein the second antenna extends over a top surface of the first antenna component.

20 11. A device as claimed in claim 6 or any claim depending therefrom, wherein the first antenna component is adapted to radiate at a frequency lower than the second antenna component.

12. A device as claimed in claim 6 or any claim depending therefrom, wherein
25 the first antenna component is adapted to radiate at a frequency higher than the second antenna component.

13. An integrated antenna device substantially as hereinbefore described with reference to or as shown in the accompanying drawings.

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